

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

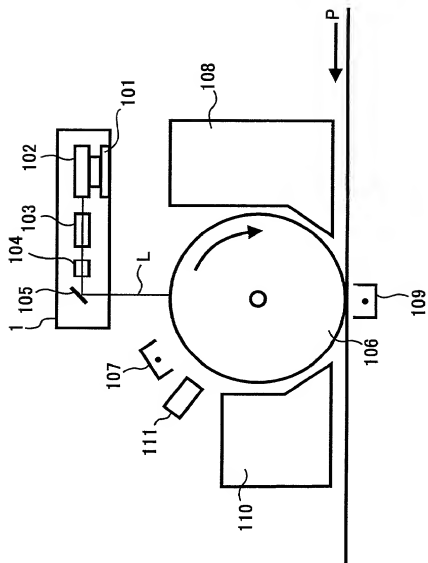


FIG. 2

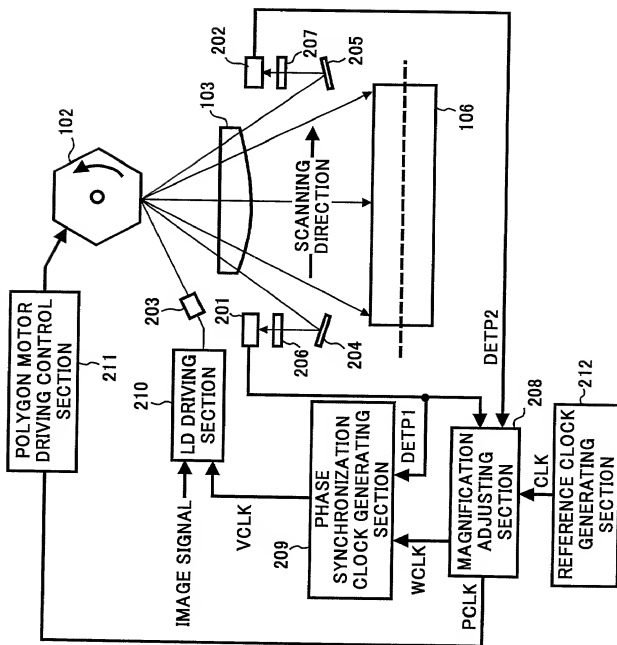


FIG. 3

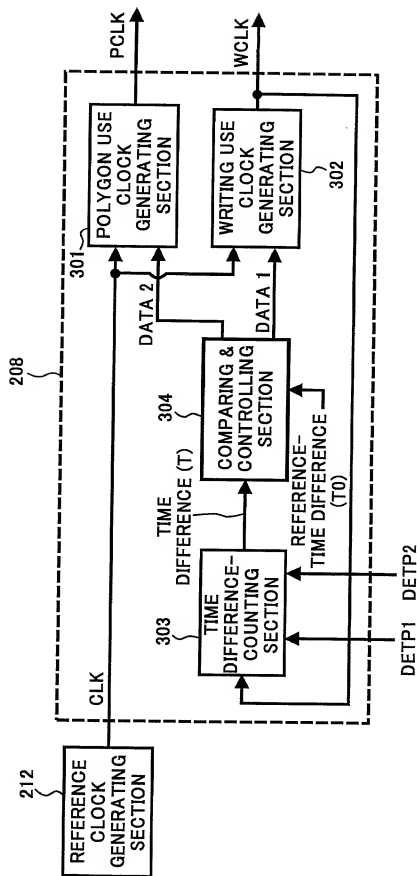


FIG. 4

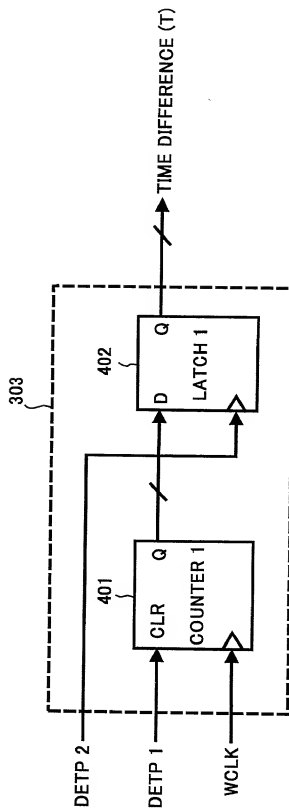


FIG. 5

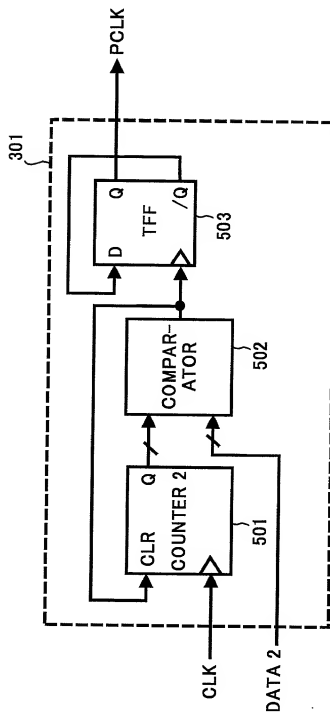


FIG. 6

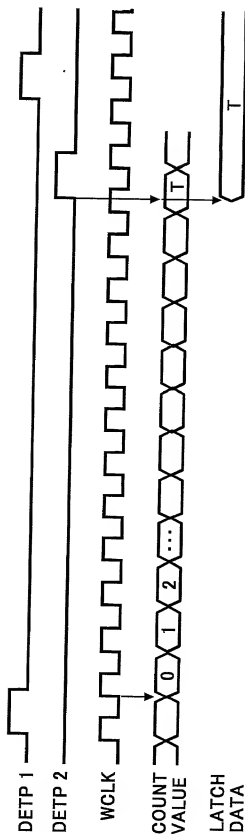


FIG. 7

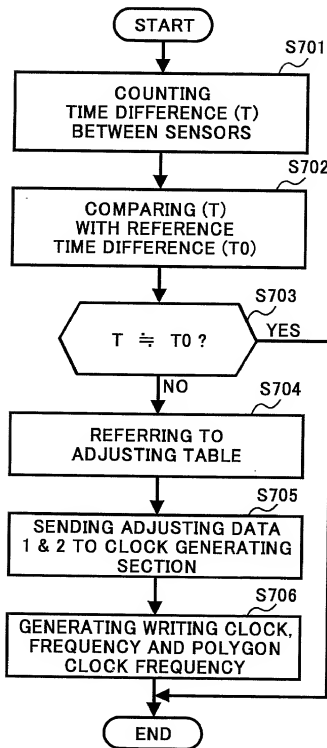


FIG. 8

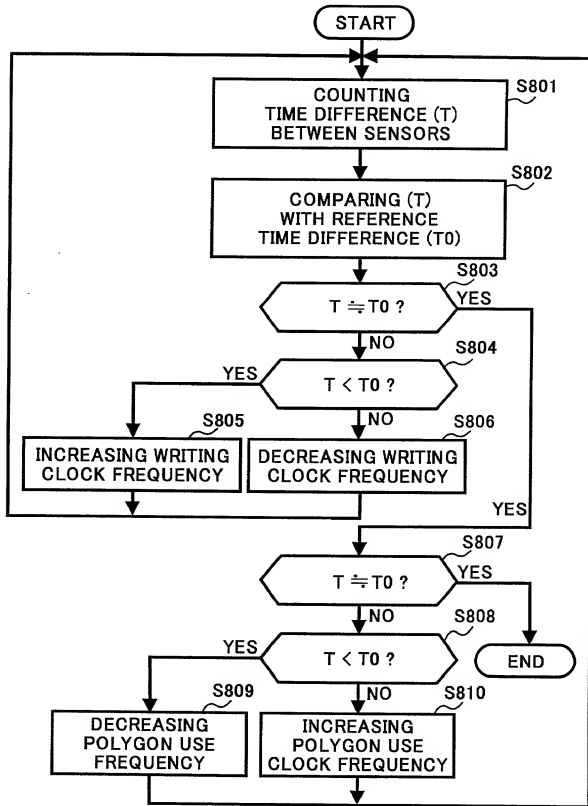


FIG. 9

```
graph TD
    START([START]) --> S901[COUNTING TIME DIFFERENCE (T) BETWEEN SENSORS]
    S901 --> S902[COMPARING (T) WITH REFERENCE TIME DIFFERENCE (T0)]
    S902 --> S903{T ≐ T0 ?}
    S903 -- YES --> S904[RETURNING POLYGON USE CLOCK FREQUENCY TO INITIAL VALUE]
    S903 -- NO --> S801
    S904 --> S801
    subgraph Loop [ ]
        S801[COUNTING TIME DIFFERENCE (T) BETWEEN SENSORS] --> S802[COMPARING (T) WITH REFERENCE TIME DIFFERENCE (T0)]
        S802 --> S803{T ≐ T0 ?}
        S803 -- YES --> S804[RETURNING POLYGON USE CLOCK FREQUENCY TO INITIAL VALUE]
        S803 -- NO --> S804
        S804 --> S805{T < T0 ?}
        S805 -- YES --> S806[INCREASING WRITING CLOCK FREQUENCY]
        S805 -- NO --> S806
        S806 --> S807
    end
    S807{T ≐ T0 ?} -- YES --> END([END])
    S807 -- NO --> S808{T < T0 ?}
    S808 -- YES --> S809[DECREASING POLYGON USE CLOCK FREQUENCY]
    S808 -- NO --> S810[INCREASING POLYGON USE CLOCK FREQUENCY]
    S809 --> S801
    S810 --> S801
```

The flowchart illustrates the control logic for the polygon use clock frequency. It begins with a **START** terminal, leading to step **S901**: **COUNTING TIME DIFFERENCE (T) BETWEEN SENSORS**. This is followed by step **S902**: **COMPARING (T) WITH REFERENCE TIME DIFFERENCE (T₀)**. A decision is made at **S903**: **T ≐ T₀ ?**. If the answer is **YES**, the process proceeds to step **S904**: **RETURNING POLYGON USE CLOCK FREQUENCY TO INITIAL VALUE**. If the answer is **NO**, the process enters a loop starting at **S801**: **COUNTING TIME DIFFERENCE (T) BETWEEN SENSORS**. Within this loop, step **S802** compares **T** with **T₀**. If **T ≐ T₀ ?** (S803) is **YES**, it returns to the initial value (S904). If **NO**, it proceeds to step **S804**: **T < T₀ ?**. If **YES**, it goes to step **S806**: **INCREASING WRITING CLOCK FREQUENCY**. If **NO**, it goes to step **S807**: **T ≐ T₀ ?**. From **S807**, if **YES**, it goes to **END**. If **NO**, it proceeds to step **S808**: **T < T₀ ?**. If **YES**, it goes to step **S809**: **DECREASING POLYGON USE CLOCK FREQUENCY**. If **NO**, it goes to step **S810**: **INCREASING POLYGON USE CLOCK FREQUENCY**. Both **S809** and **S810** lead back to the start of the loop (**S801**).

FIG. 10

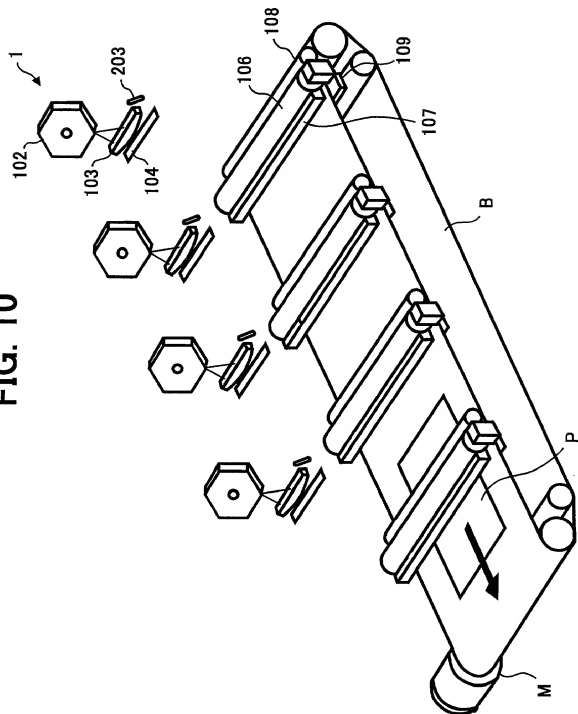


FIG. 11

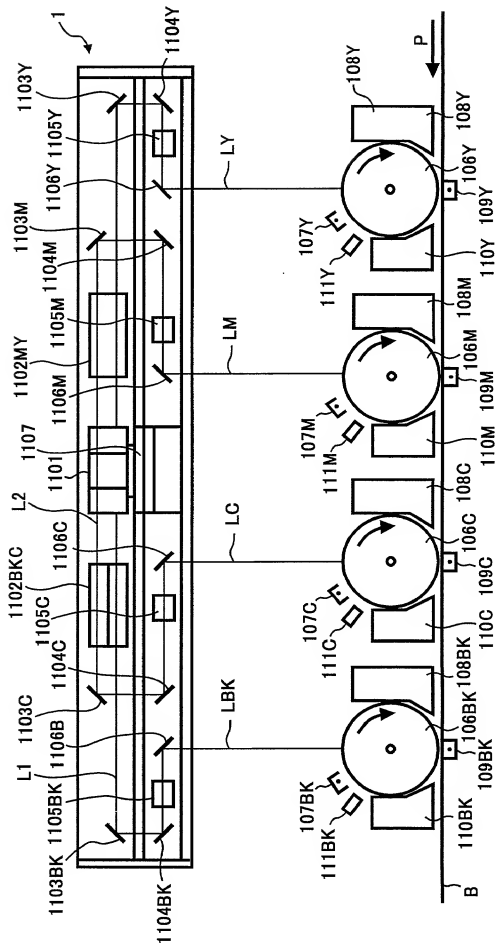


FIG. 12

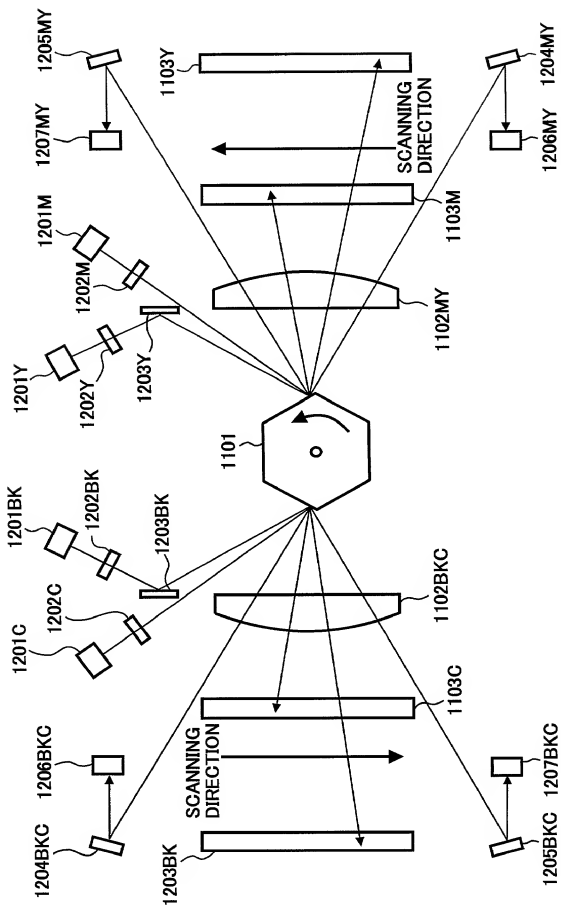


FIG. 13

OUTWARDLY
EXTENDING
DIRECTION X

POSITION
DEVIATING
AMOUNT

Y → MAIN SCANNING POSITION
FLUCTUATING AMOUNT

VICINITY OF SENSOR

VICINITY OF
IMAGE END IN MAIN
SCANNING DIRECTION

Z → IMAGE
MAGNIFICATION
FLUCTUATING
AMOUNT/2

VICINITY OF CENTER
OF $f\theta$ LENS

TEMPERATURE

b

HIGH

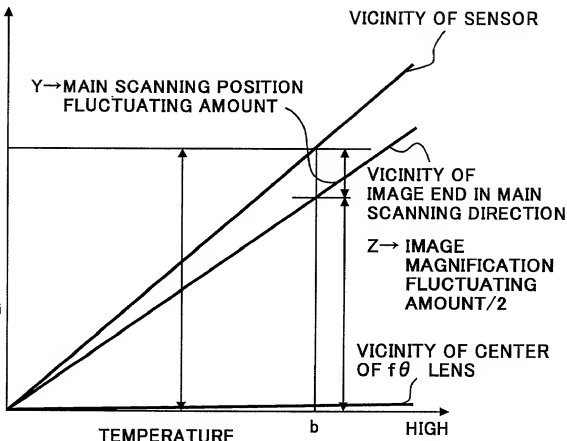


FIG. 14

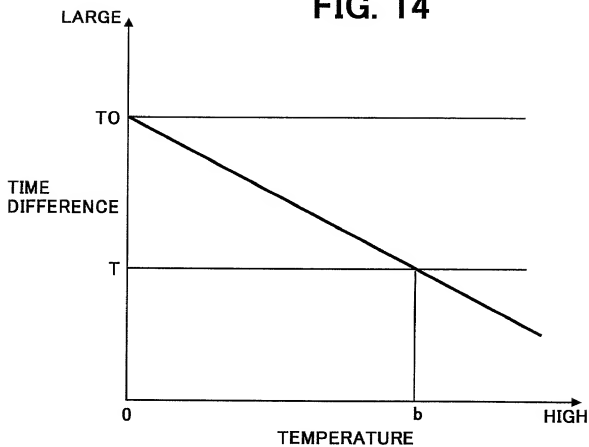


FIG. 15

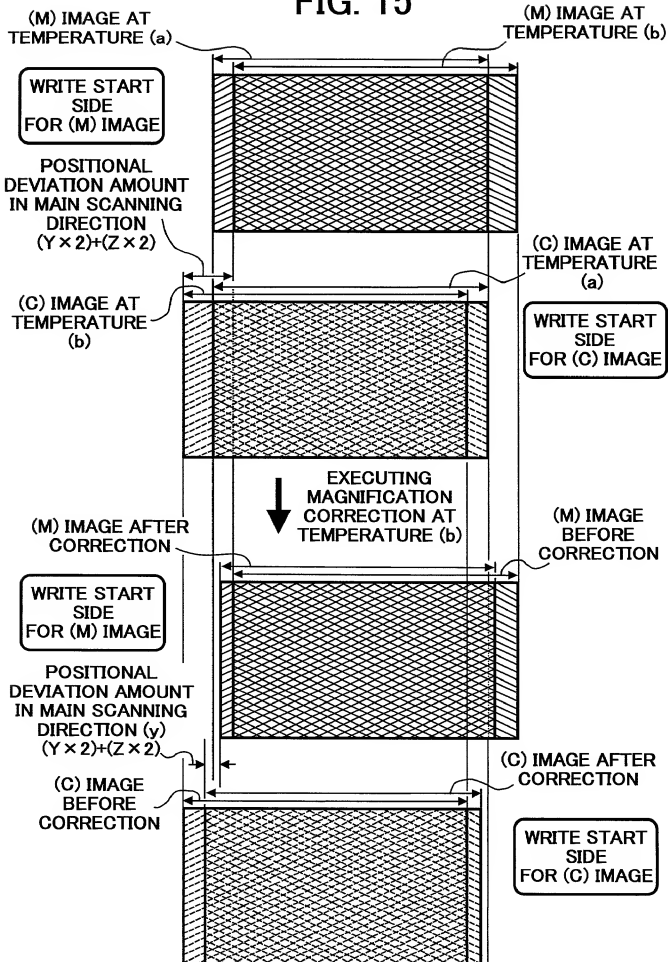


FIG. 16

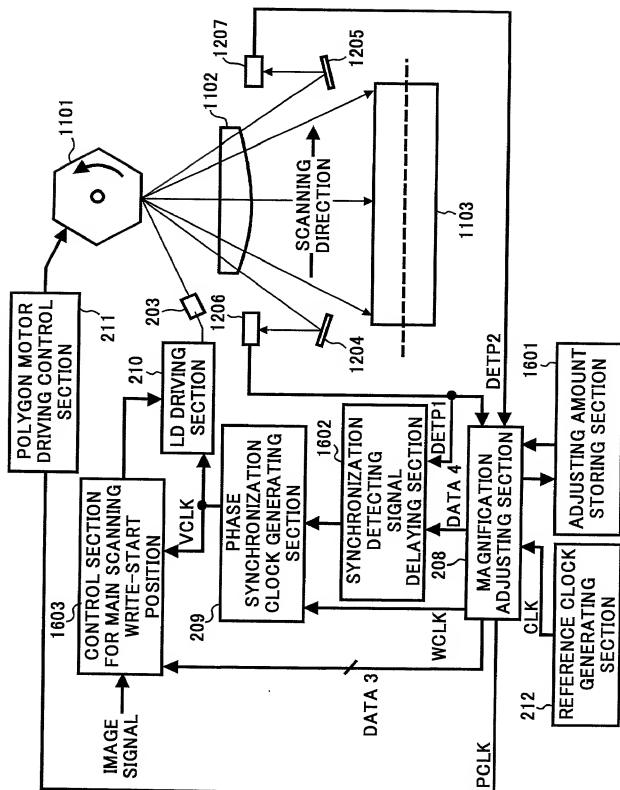


FIG. 17

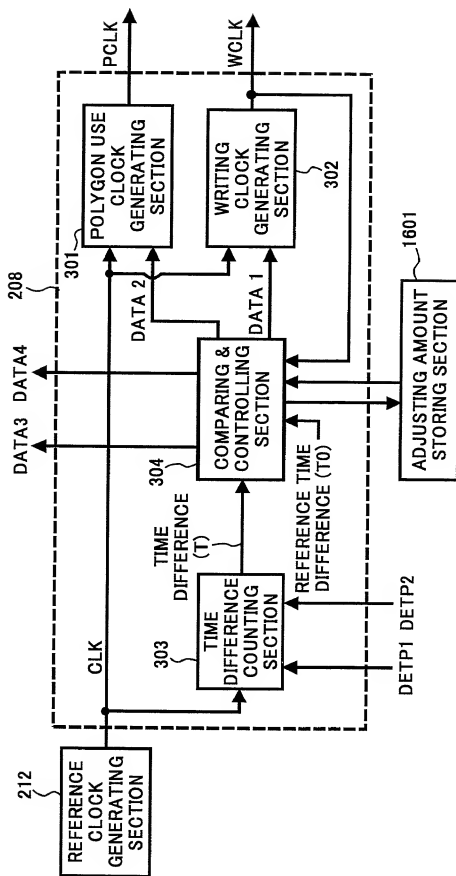


FIG. 18

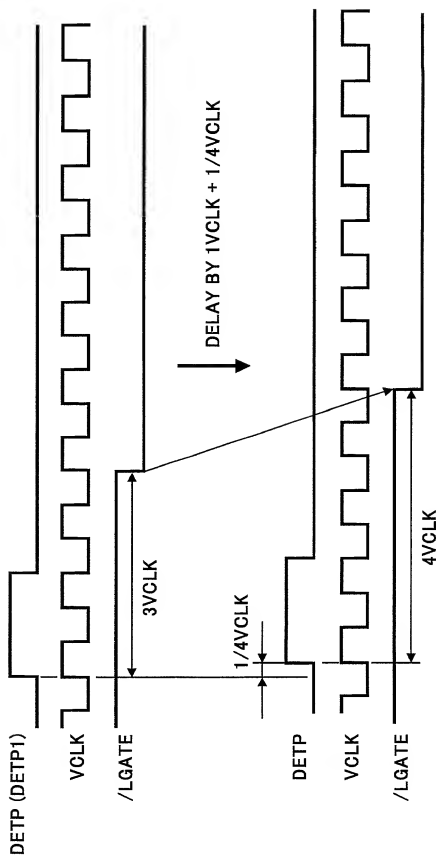


FIG. 19

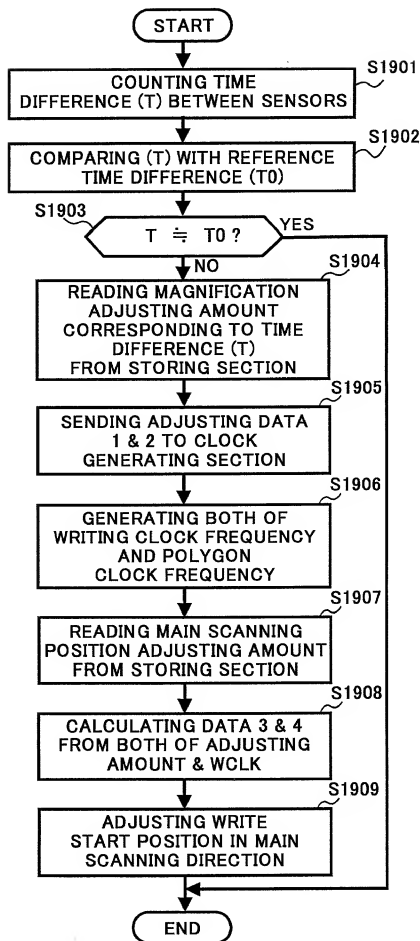


FIG. 20

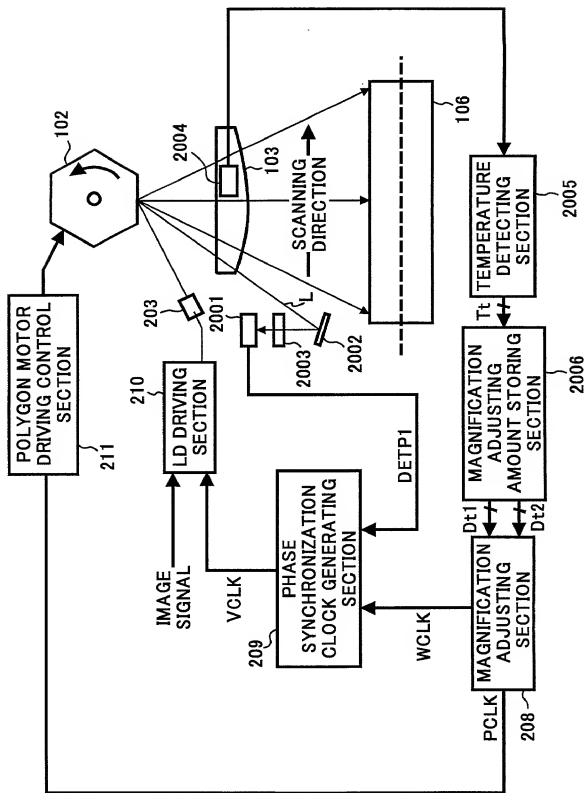


FIG. 21

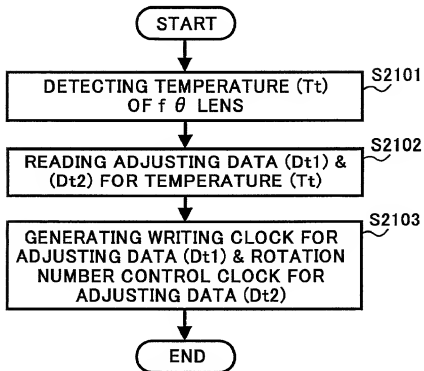


FIG. 22

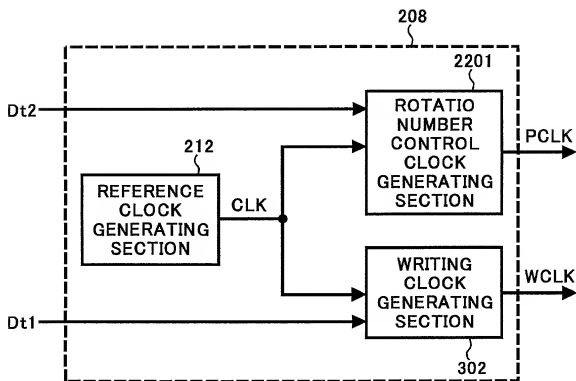


FIG. 23

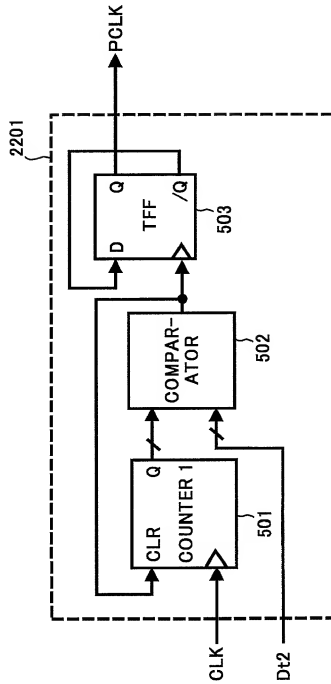


FIG. 24

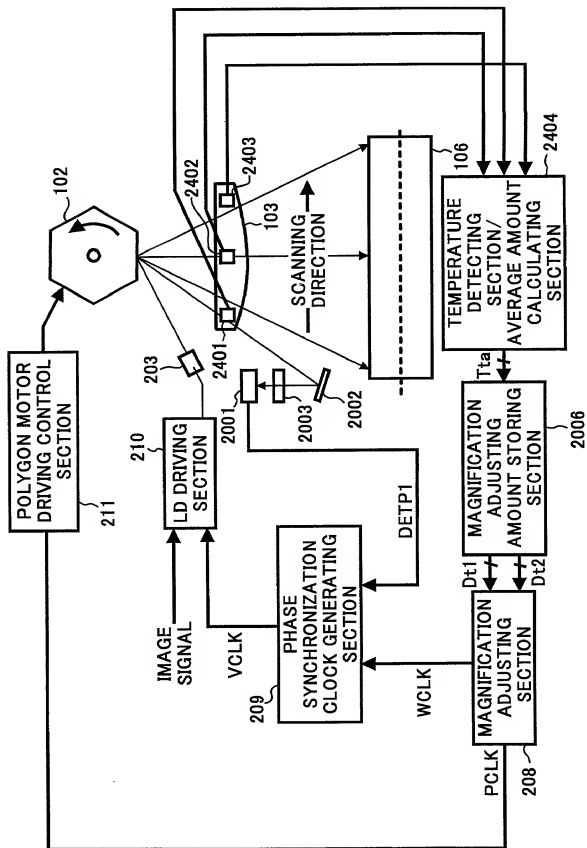


FIG. 25

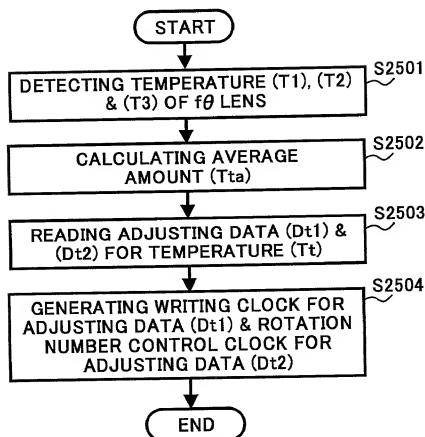


FIG. 26

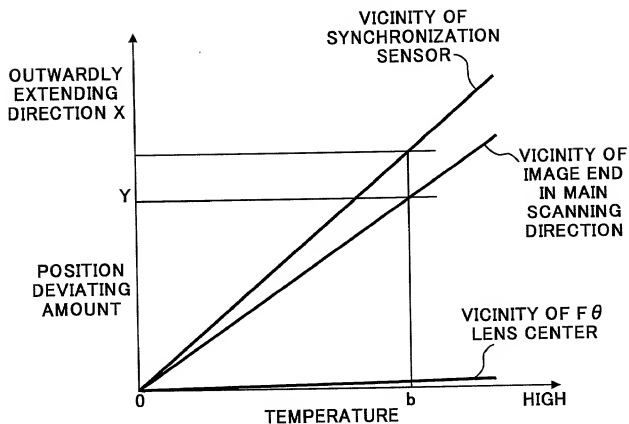


FIG. 27

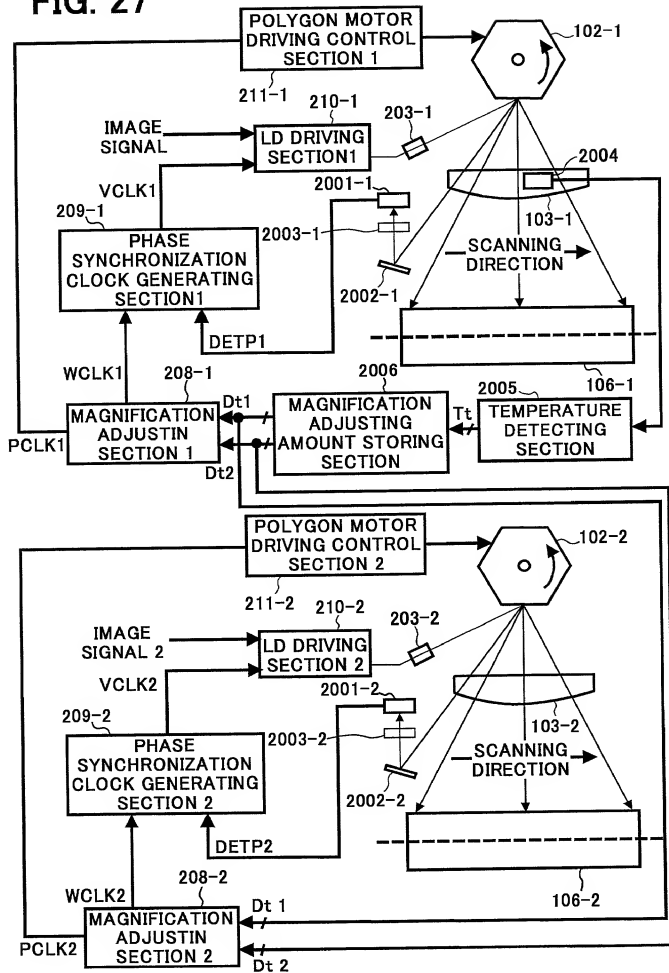


FIG. 28

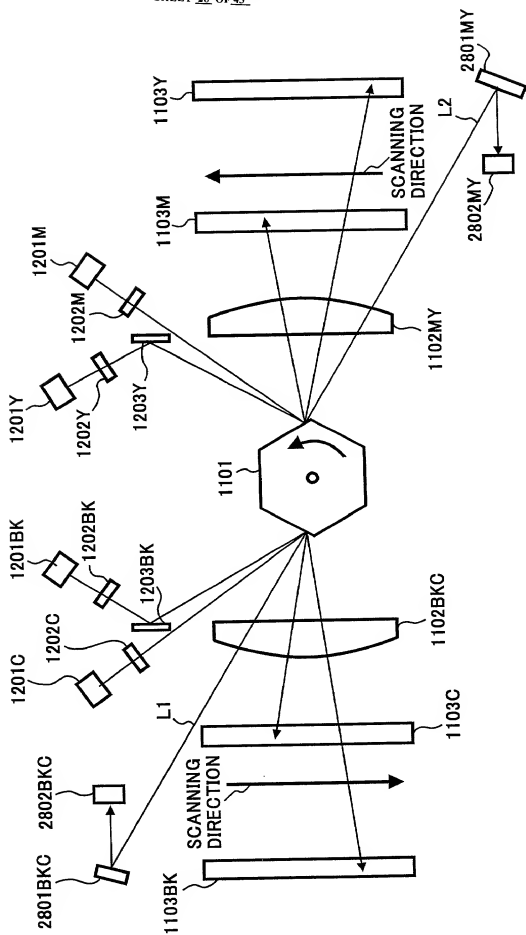


FIG. 29

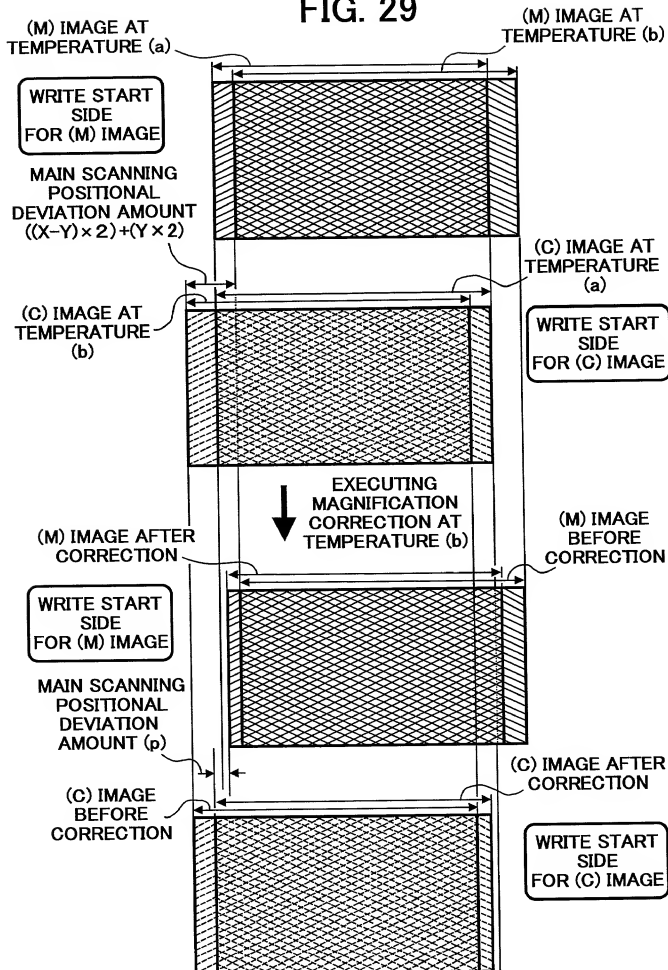


FIG. 30

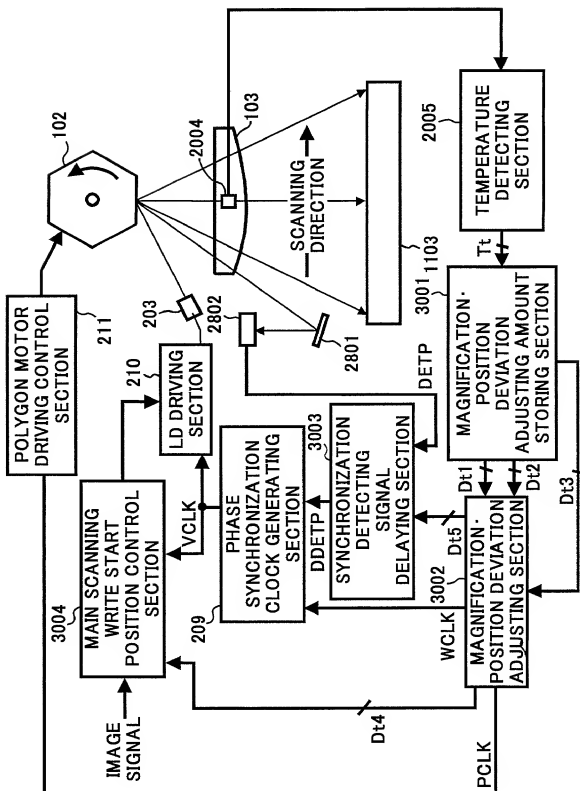


FIG. 31

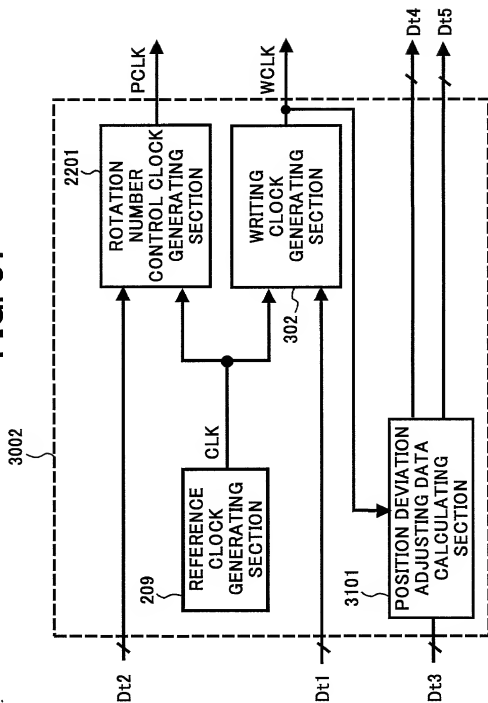


FIG. 32

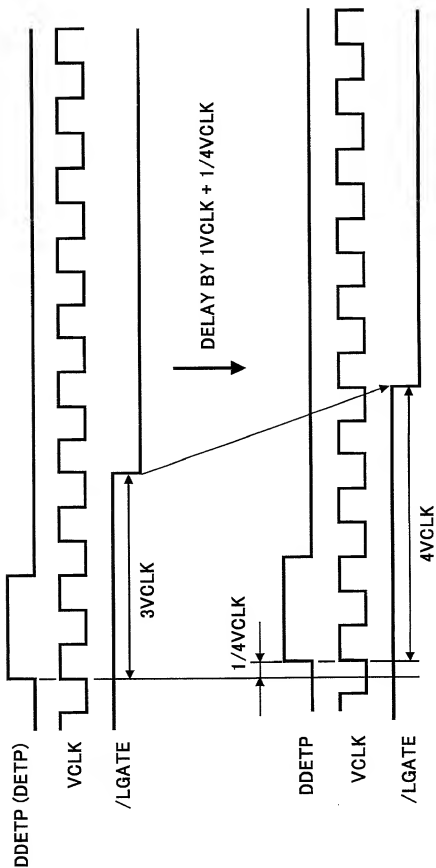


FIG. 33

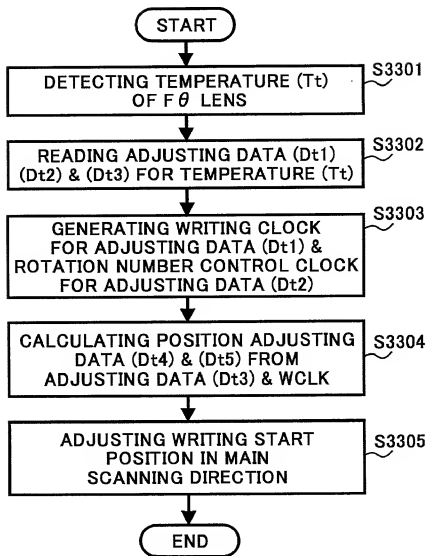


FIG. 34

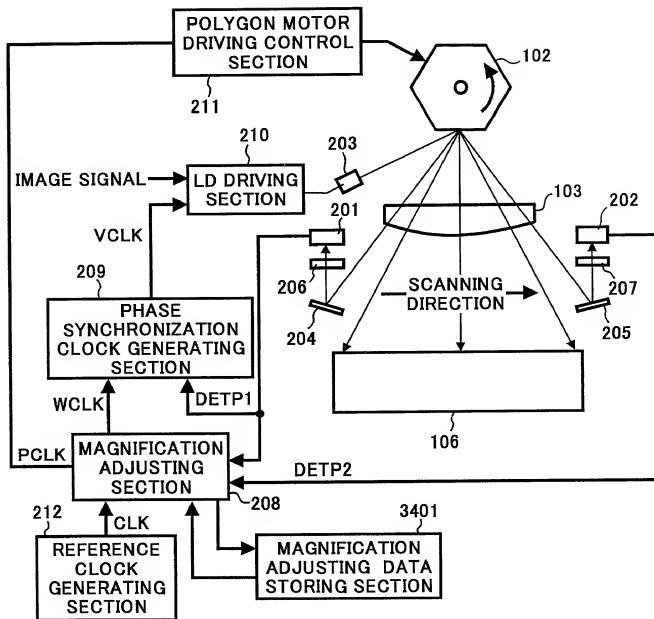


FIG. 35

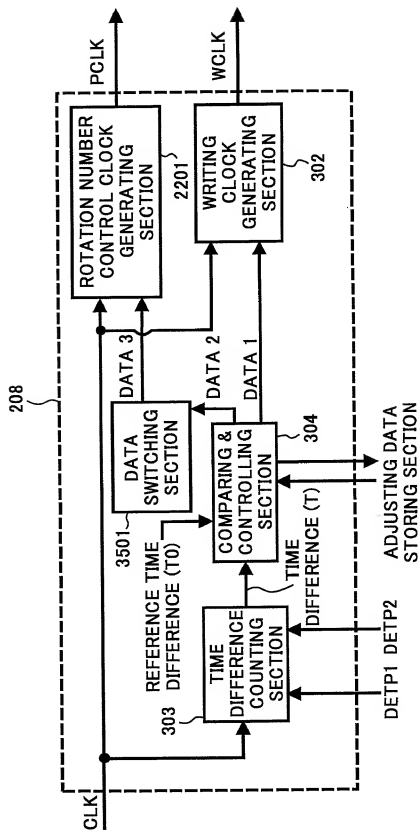


FIG. 36

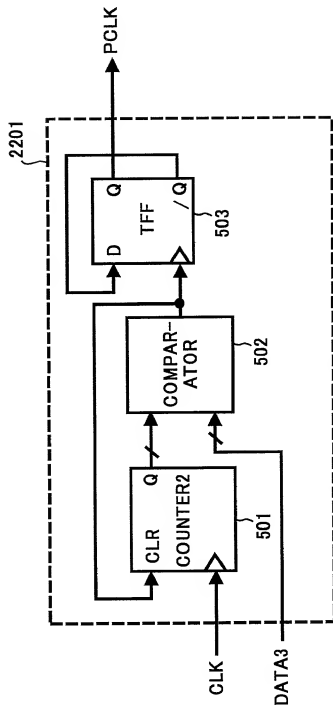


FIG.37

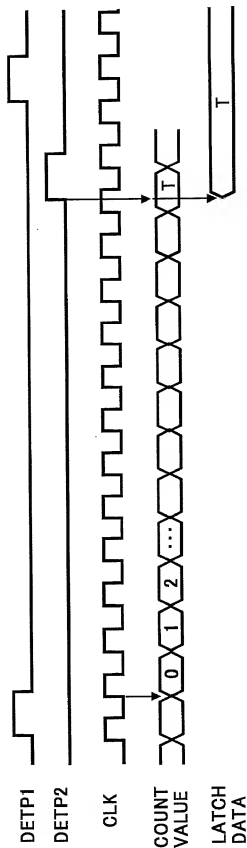


FIG. 38

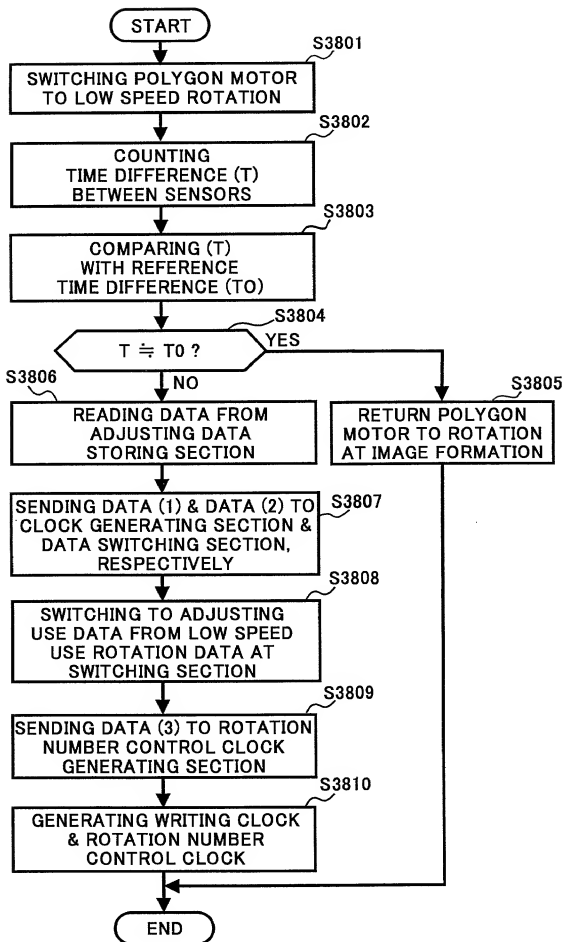


FIG. 39

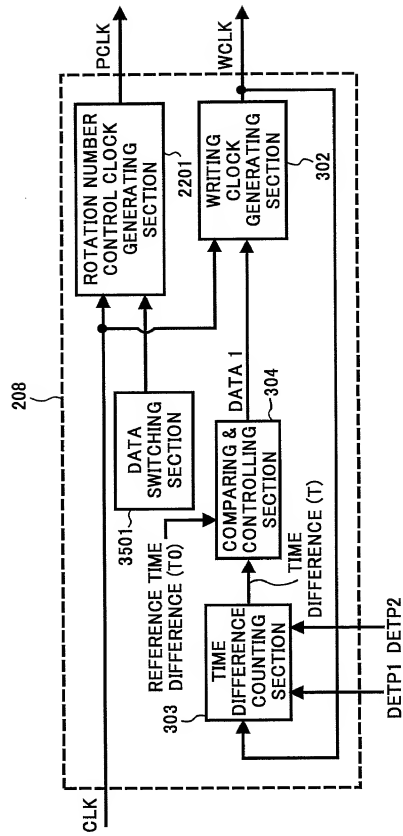


FIG. 40

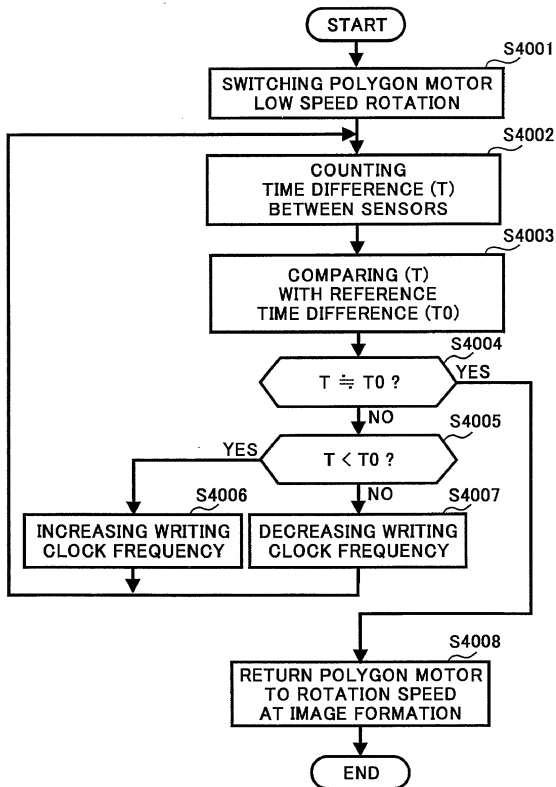


FIG. 41

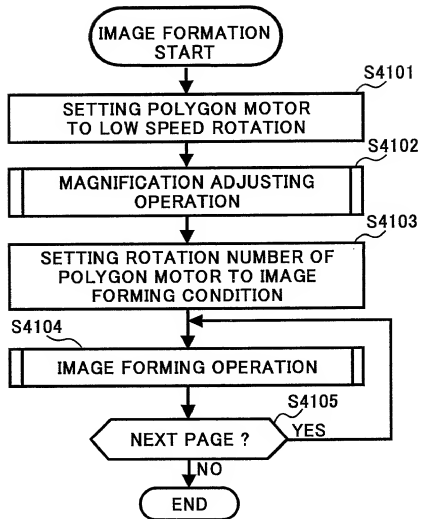


FIG. 42

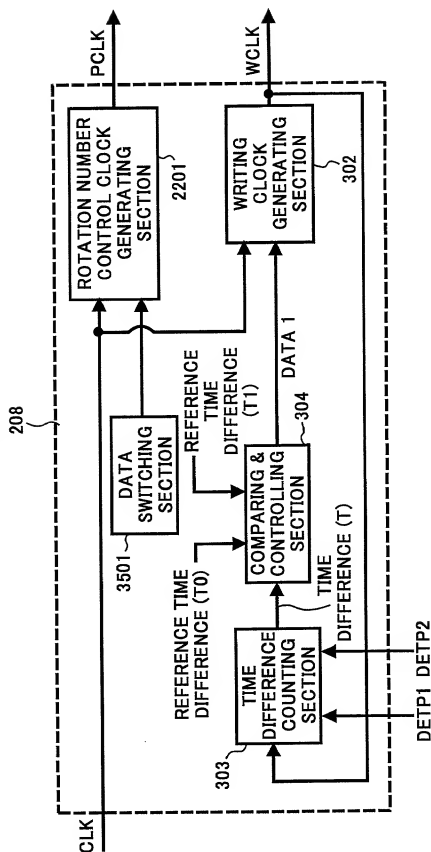


FIG. 43

